



LEAGUE CITY, TEXAS

CALDER ROAD PUMP STATION IMPROVEMENTS PROJECT

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Presented by:



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PROJECT PURPOSE

TO UPGRADE THE CALDER ROAD PUMP STATION TO HANDLE YEAR 2020 FLOWS AS STATED IN THE CITY'S WATER MASTER PLAN.



EXISTING SITE PLAN





PROJECT SCOPE

- Two (2), 3.25 MG, prestressed concrete ground storage tanks.
- A new booster pump building.
- Four proposed 150 HP split case centrifugal pumps and space for two future 300 HP split case centrifugal pumps within the booster pump building.
- New SCADA system for the facility.
- Demolition of designated components of the existing plant will include the two (2) hydropneumatic tanks, the western-most bolted ground storage tank, the generator and fuel tank, the existing pumps and pump pad, and the existing control and disinfection structures.



PROJECT SCOPE (CONTINUED)

- A new diesel generator to accommodate all anticipated electrical loads, plus capability to start and run a future well at the site.
- Proposed chemical feed systems will include the means to off-load, store, pump, and monitor chlorine, ammonia, and polyphosphate.
- New inlet lines sized for ultimate flow will be tied into the 39-inch waterline on Calder Road.
- A new reinforced concrete entrance drive and plant road will be constructed.



PROJECT SCOPE (CONTINUED)

- Water from tank draining or storm events will be piped to the proposed storm sewer on Calder Road. Per City requirements, detention ponds are also being designed.
- An 8-foot chain link fence will be provided.
- Security cameras.
- A remote controlled gate.
- A pulse-air type mixer will be provided for all existing and proposed tanks at the site.
- A new electrical feed to accommodate the proposed improvements.



PROPOSED SITE PLAN





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PROJECT SCHEDULE

SCHEDULE ITEM

APPROX. DATE

FINAL DESIGN COMPLETION

FEBRUARY 2013

BID PROJECT

1ST QTR 2013

CONTRACT AWARD TO GEN. CONTRACTOR

2ND QTR 2013

CONSTRUCTION START

2ND QTR 2013

CONSTRUCTION DURATION

18 MONTHS

CONSTRUCTION COMPLETION

4TH QTR 2014